

What is claimed is:

1. A battery comprising:
an electrode having at least a first surface;
a plurality of closed cells disposed in a predetermined feature pattern
5 on said at least a first surface, and
means for changing the pressure of at least a first fluid disposed within
said plurality of cells in order to cause an electrolyte liquid to change the
degree of penetration of said feature pattern.
2. The battery of claim 1 wherein said plurality of closed cells each
10 have at least a first dimension less than 1 millimeter.
3. The battery of claim 1 wherein said plurality of closed cells each
have at least a first dimension less than 1 micron.
4. The battery of claim 1 wherein said means for changing the
pressure of at least a first fluid comprises means for changing the temperature
15 of said at least a first fluid.
5. The battery of claim 4 wherein said means for changing the
temperature comprises one or more cell electrodes disposed within at least a
portion of the closed cells in said plurality of closed cells,
wherein, upon causing electrical current to flow through said cell
20 electrodes, the temperature of said fluid increases.
6. A battery comprising:
an electrode having at least a first surface;
a plurality of closed cells disposed in a predetermined feature pattern
on said at least a first surface;
25 a plurality of cell electrodes disposed along a portion of the inner
surface of at least a portion of said closed cells in said plurality of closed cells.
7. A method for controlling the contact of an electrolyte with an
electrode, said electrode comprising a plurality of closed cells disposed in a
predetermined feature pattern and said electrolyte disposed on at least a

portion of the closed cells in said plurality of closed cells, said method comprising:

selectively changing the pressure of at least a first fluid in at least one cell in said plurality of cells in a way such that said electrolyte will achieve a desired level of penetration of said cells.

8. The method of claim 7 wherein said pressure is changed by changing the temperature of the fluid within said at least one cell.

9. The method of claim 7 wherein each cell in said plurality of cells has at least a first dimension less than 1 millimeter.

10. The method of claim 7 wherein each cell in said plurality of cells has at least a first dimension less than 1 micron.

11. The method of claim 8 wherein said temperature is changed by causing electrical current to flow through a plurality of cell electrodes, said cell electrodes disposed within said at least a portion of said closed cells, thus increasing the temperature of said fluid.

12. A method for use with a reserve battery, said battery comprising an electrolyte fluid disposed on a plurality of closed cells, said closed cells disposed on at least a first battery electrode, said method comprising:

causing at a first desired time the electrolyte to penetrate said plurality of closed cells in a way such that said electrolyte contacts said at least a first battery electrode; and

at least partially expelling the electrolyte from said plurality of closed cells in a way such that said electrolyte is separated from said battery electrode.

13. The method of claim 12 further comprising:

between said step of causing and said step of expelling, reversing at a second desired time the flow of current through said battery, thus recharging said battery. 14. The method of claim 12 wherein said step of causing

comprises applying a voltage to said electrolyte, thus creating a voltage differential between said electrolyte and said plurality of closed cells.

15. The method of claim 12 wherein said step of causing comprises applying a voltage to said plurality of closed cells, thus creating a voltage differential between said electrolyte and said plurality of closed cells.